2070/Oasis RR Preemption NOTICE

Many of you are already aware that the 2070 controller will not hold intersection configuration data for longer than 30 days without power applied to the unit. This is normal and is "as specified" by Caltrans. This is due to the fact that the configuration files are stored on the "r0" drive (SRAM). The "r0" is backed up by "standby power" (during a power interruption) which is supposed to hold up for thirty days (minimum).

If, by chance, the controller loses the configuration files on the "r0" drive, Oasis will recognize the files are missing and use the default data written into the code for it's intersection configuration (which is set up as a standard 8 phase, dual ring operation). This type of operation is considered safe for most applications. However, when RR preemption is involved other concerns come into play. For instance, we have had several experiences throughout the state in which the capacitor that provides the controller's "standby power" failed, and the controller lost its configuration data during a BRIEF power interruption. Of course, the potential is there for any controller to lose it's "standby power" when a component fails, and if that particular intersection requires RR preemption, the controller would come up and run the intersection, but with no RR preempt program. This is obviously a safety concern.

To remedy this problem, the specific intersection data has to be made the "default" data, which has to be stored on the "f0" drive (FLASH MEMORY). The "f0" drive is where Oasis itself is stored and is designed to hold data for about one year without power applied. This default data change is done by copying the configuration files from the "r0" drive to the "f0" drive. When the configuration file is copied to "f0" drive, the specific intersection configuration becomes the "default" data, so if standby power is lost or power is interrupted for more than thirty days, the normal intersection configuration will be restored (including any preemption programming).

Manipulating files on the 2070 is accomplished through the controller's operating system, which can be accessed through "HyperTerminal". Attached you will find an instruction sheet detailing how to copy the intersection configuration file to the "f0" drive, using your PC. It is recommended that this procedure be performed at all 2070/Oasis railroad preemption locations as soon as possible.

If you have any questions you may call Mark Harrison at (919)733-5425.

PROCEDURE TO CREATE CONFIGURATION DEFAULT

1. **Start a 9600 Baud Hyperterminal Session**
   Com=1, Bits Per Second=9600, Data Bits=8, Parity=None, Stop Bits=1, Flow Control=None

2. While holding down the [BACKSPACE] key, cycle power on the controller.
   Wait for a **$ prompt**.

3. Change to FLASH memory (f0).
   $ chd /f0

4. Copy oasis.config1 file from r0 drive to f0 and rename to oasis.config
   $ copy /r0/oasis.config1 oasis.config

5. Verify that oasis.config file is on f0.
   $ dir

6. Controller will now use specific intersection settings as it's default program.

7. End Hyperterminal session and cycle power on controller.

PROCEDURE TO GO BACK TO FACTORY DEFAULT SETTINGS

1. **Start a 9600 Baud Hyperterminal Session**
   Com=1, Bits Per Second=9600, Data Bits=8, Parity=None, Stop Bits=1, Flow Control=None

2. While holding down the [BACKSPACE] key, cycle power on the controller.
   Wait for a **$ prompt**.

3. Change to FLASH memory (f0).
   $ chd /f0

4. Delete oasis.config file.
   $ del oasis.config

5. Verify that oasis.config is no longer present on f0.
   $ dir

6. Controller will now use factory default settings.

7. End Hyperterminal session and cycle power on controller.